STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR

# PRECAST MANHOLE 4′,5′ AND 6′ DIAMETER

12″ THRU 48″ PIPE

SHEET 1 OF 1

840.52

GENERAL NOTES

USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.

FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.

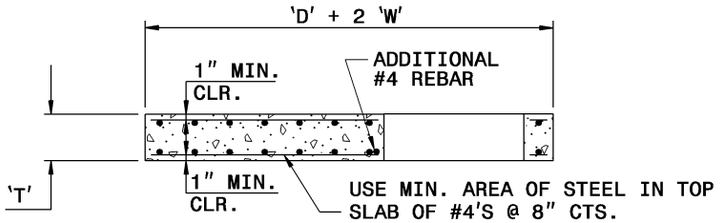
ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12″ FROM THE TOP TO THE BOTTOM OF THE MANHOLE.

WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9″ ABOVE THE GROUND AT OTHER LOCATIONS.

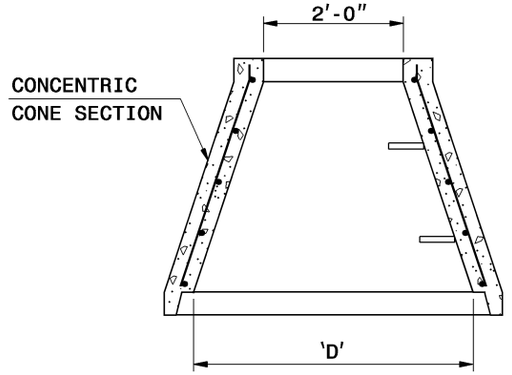
LIMIT DEPTH OF FILL TO 30′-0″ FROM FINISH GRADE TO TOP OF BOTTOM SLAB.

THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.

* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

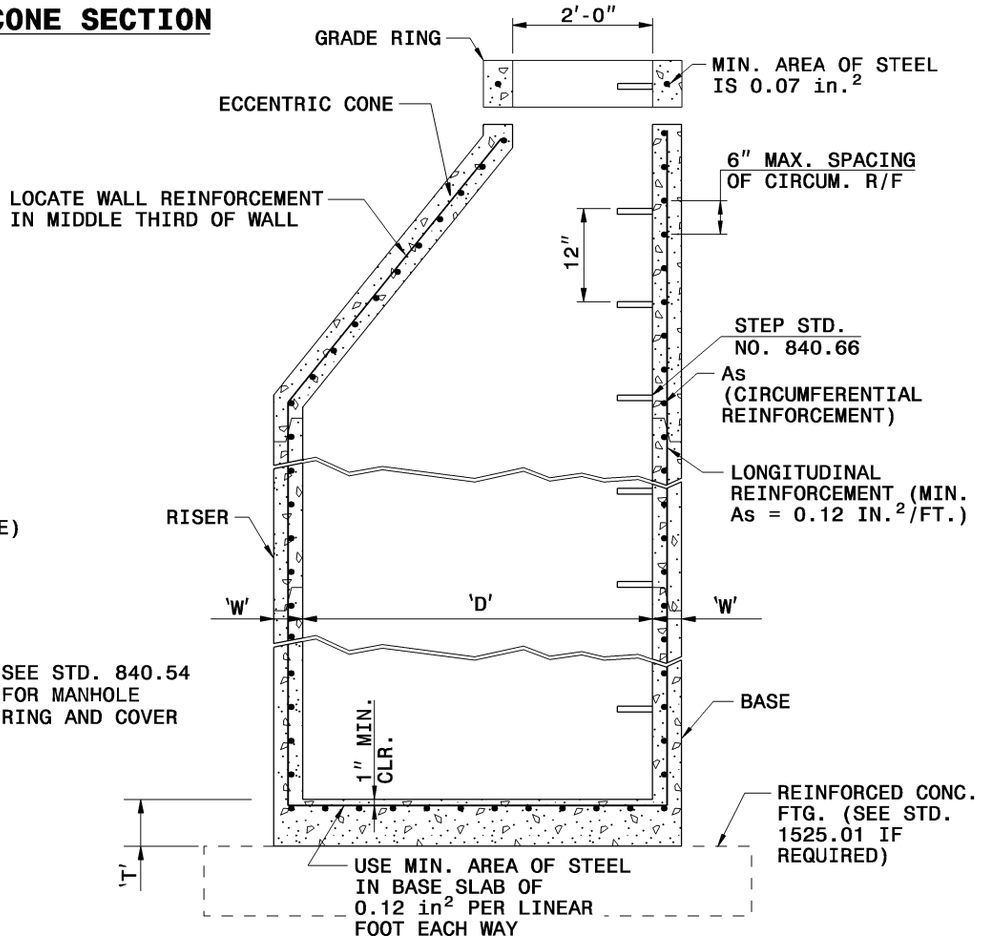



## FLAT TOP SLAB



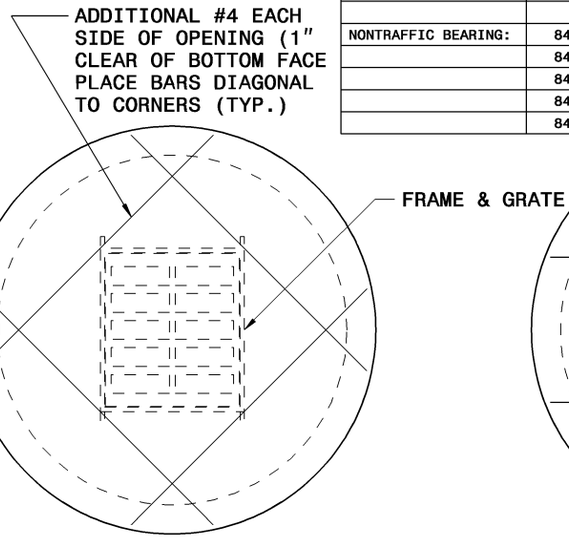

## ALTERNATE CONE SECTION

| D | W | T | As |
|---|---|---|---|
| INTERNAL DIAMETER (FT.) | MIN. WALL THICKNESS (IN.) | MIN. TOP/BOTTOM SLAB THICKNESS (IN.) | MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.) |
| 4 | 4 | 6 | 0.12 |
| 5 | 5 | 8 | 0.15 |
| 6 | 6 | 8 | 0.18 |

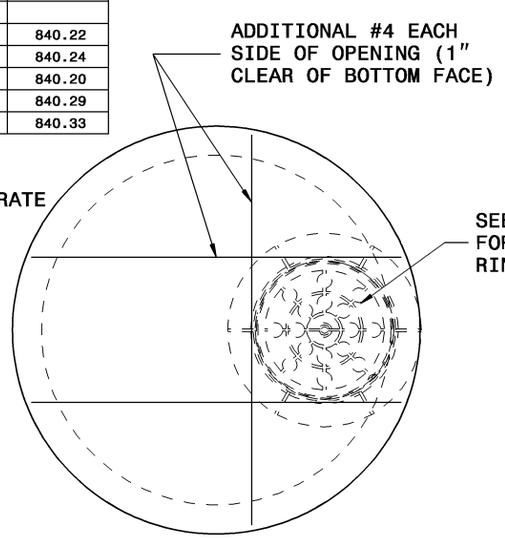



## TYPICAL MANHOLE SECTION

| FRAME AND GRATES | STD. NO. |
|---|---|
| TRAFFIC BEARING | 840.37 |
| | |
| NONTRAFFIC BEARING: | 840.22 |
| | 840.24 |
| | 840.20 |
| | 840.29 |
| | 840.33 |




## GRATED INLET OPTION




## MANHOLE OPTION

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